

ABSTRACT OF THE DISCLOSURE

Proteins that trigger immune responses in cancer patients are described. The proteins include protein
5 phosphatase 4 regulatory subunit (Genbank AJ271448); a protein product corresponding to Genbank
AK001674; putative translation initiation factor (SUI1) (Genbank NM-005801); RNA helicase (Genbank
AL359945); MIL1 protein, nuclear gene encoding mitochondrial protein (NM-015367); MacMarks protein
(Genbank X70326); chromosome 11 open reading frame 10 (c11orf10) (Genbank AF0867763); and,
10 plakophilin 4 (PKP4) (Genbank NM-003628). In addition, a novel nucleic acid molecule identified in an
immunoscreen of a breast carcinoma cDNA library is described. Diagnostic and therapeutic applications are
also described.